BRUHAT BANGALORE MAHANAGARA PALIKE

YELHANKA ZONE ELECTRICAL DIVISION

Name of Work:-Detailed Estimate for Supplaying and Errection of Boat Style Floating Jet Aerator of approxmatly 13 Mtrs Height With LED RGB Lights including HT Installation in Yelahanka old town tank Ward

Budget Head .....

Division No..... Estimate No. 45/2017-18. For Rs. **2800000.00**

Sl.No.	SR Page & SL No	Description of Work	Qty.	Rate Rs.	Unit	Amount
1	AR	Supplay, Instalation Testing And Commissioning of COMPACT floating foaming Jet Aerator. The Aerator is mounted on an unobtrusive circular float built in international standards in GRP With alluminium sub frame for complete corrosion rasistance there are four separate compartments each fitted with closed cell foam prevents the entry of water even if floot holed with 3HP Motor 4 Nos RGB(0.084KW) lights completly integrated Package, factory assembled so as to achive the best possiable display and precision of the Water Jets and effects. The pump set is exactly matched to the fountain,The work should be carried out as per the directions of the incharge Engineer including lead & lift	1	452500.00	Set	452500.00
2	AR	Supplay, Instalation Testing And Commissioning of of COMPACT floating foaming Jet Aerator. The Seven heavy Jets radiating out from the base is mounted on an unobtrusive circular float built in international standards in GRP With alluminium sub frame for complete corrosion rasistance there are four separate compartments each fitted with closed cell foam prevents the entry of water *even* if floot holed, with 2x10HP Motor,12No. 54 Wx24V LED RGB Lights completly integrated Package, factory assembled so as to achive the best possiable display and precision of the Water Jets and effects. The pump set is exactly matched to the fountain,The work should be carried out as per the directions of the incharge Engineer including lead & lift	1	1649500.00	Set	1649500.00
3	56/7.4.8	Supplying of LT UG cable having aluminium conductor PVC insulated, sheathed, galvanished, steel wire/steel tap armoured cable with PVC outer sheating 1.1 KV class.I. Class 'A' PVC Cable. 3.5 core 70 sqmm	350	270.00	Per Mtr	94500.00
4	61/7.8.2	Labour charges for laying of 1.1 KV class UG cable when supplied agency in existing trench GI pipe / stoneware pipe / on wall /on pole as required. I. In existing trench/duct. 25 sqmm to 75 sqmm	350	16.00	Per Mtr	5600.00
5	62/7.9.1	Digging of trench of 0.6 m deep x 0.50 mtr wide refilling the trench to the required ground level and consolidating etc.,complete. (As perCivil SR KSRB I-2, P-7).a) In soil (ordinary)	297	78.00	Per Mtr	23166.00

6	49/6.40.2	Fabricating supplying and mounting MS box made out... SWG suitable lfor floor/wall mounting, fully weather proof with provision for better heat dissipation, provided with hinged front cover, equipped with tamper proof locking arrangements, with suitable size cdlamps with mecessary cable entry pipe with gland and box should be finished with 2 cdoats of red oxide primer paint and finally finished with approved colour enameled metal pain etc., complete. b)16 swg	90000	0.33	Sqcm	29700.00
7	49/6.39.1	Supplying and fixing angle iron frame work fabricated out of M.S. angle iron.. And M.S. flat... with bolts, washers etc., and painted with 2 coats of red oxide and then two coats of approved paint. a)40X40X6mm	10	263.00	Per Mtr	2630.00
8	6.12.4	Supply and fixing of 4-pole power contactor with NO/NC contacts on existing wood / panel board using necessary bolts, nuts, washers and wiring etc., complete. d) 160-200Amps	2	15974.00	Nos	31948.00
9	47/6.16.4	Supplying and fixing miniature circuit breakes on exisiting MCB distribution boards using necessary fixing materials and wiring complete as required. b) 40-63Amps DP,2. Group 'A'	1	1093.00	Nos	1093.00
10	47/6.16.6	f)40-63Amps TPN, Group A	1	1936.00	Nos	1936.00
11	228/2.8.9	Supplying and drawing Flexible Multicore Cable manufactured with electrolytic grade flexible copper with low conductor confirming to table 3 class 5 of IS:8130-1984 and (Virgin) PVC insulation and sheathed suitable for working voltage upto 1100Volts as per IS-694:1990 & confirming to GTP of GROUP-A.4C X 2.5Sq.mm	900	93.40	Mtrs	84060.00
12	12/2.1.4	Supplying and drawing 3 core flat PVC sheathed submersible pump cable manufactured with electrolytic grade copper with flexible copper with low resistance conductor confirming to table 3 class 5 of IS:8130-1984 and virgin grade PVC insulation and powder coating extruded PVC sheathed suitable for working voltage upto 1100Volts as per IS-694:1990 & confirming to GTP of GROUP-A 3C X 6.0Sq.mm(150Mtrs x 6 Runs)	900	188.70	Mtrs	169830.00
13	64/7.22.6	Supplying and running GI/Copper conductor for grounding and (along with other wires in conduit system of wiring) using necessary suitable size clamps, nails, guttas/spacers etc. Copper wire.8 SWG	800	107.70	Mtrs	86160.00
14	46/6.13.A.2	Supplying and fixing Moulded Case Circuit Breaker (MCCB) over the existing wood/panel board using necessary screws, bolts, nuts and wiring complete. Protection of Overload and Short circuit with thermal Magnetic/Micro processor release and Earth Fault as per IS-13947. (Icu = Ics) THREE POLE 125-160Amps 25kA.	2	5406.00		10812.00

14	27/4.36.1	LED Street light. Supply of LED Streetlight with pressure die cast aluminum housing body with optimal heat sink for better thermal dissipation. Diffuser with Injection moulded & is made of polycarbonate material with high transmission index, delivering superior light output. Rated life Burning Hrs. 50000 hr. @ Lumen Maintenance of 70%. CCT > 5500K, IP 66 optical and electrical compartment & impact resistance of complete luminaire > IK08. Power Factor >0.9 with mains Current should not be greater than 0.1A to 0.7A & Surge Protection- Min 4 KV along with Over voltage/Overload, short circuit/ miswiring protection. Compatible for pole mounting with outer dia of 40mm to 50mm. Universal Voltage driver to operate wide voltage range from 100V to 270V 50/60Hz application. Over load & Short circuit protection ensures reliable operation in spite of problem in output side. Compliance to IS 10322/IEC 60598, LM 79 & LM 80 Adherence with RoHS. UL approved MCPCB. Top access street light with single screw to ensure ease of maintenance at the sight site location with minimized minimal tools. LED Light fixture with .....W System Power consumption. LED Efficiency>130lm/w at 1W & Fixture Efficiency >80lm/w with nominal CRI 75+. housing with supplier word mark / name shall be engraved / Embossing on the die cast housing / body part. . Luminaire manufacturer should have in-house facility accredited by NABL/CPRI & any Government certified agency & Design & Development facility certified by ISO 9001:2008. Warranty of 5 Years against any manufacturing defect working under standard electrical conditions as mentioned above should be given by LED source manufacturer. Suitable for A1/A2 Roads as per IS 1944 Part I & Part II.90 Watts	05 10	31250.00	NOS	156250.00 312500.00
		Mislenious				315-00 27500
		Total				2800000.00

CERTIFICATE

1. The Place was inspected and work is essential.
2. The Provision made in the estimate is adequate and are necessary.
3. The Work comes in the BBMP limit and is legitimate charges on the Corporation Funds.
4. The rates in the Estimate is based on PWD (Elec) SR of 2014-15 and Approved Rates .

J.K.N. Reddy
jr/Asst. Engineer (Elec)

Asst. Exe.Engineer (Elec)
yelhanka zone
Bruhat Bangalore Mahanagara Palike

EXECUTIVE ENGINEER (ELEC)
YELHANKA ZONE
BRUHAT BANGALORE MAHANAGARA PALIKE

Administrative Sanction for Rs. 28.00 LAKHS
Rupees Twenty Eight Lakhs
ONLY
is accorded under head P3250. Special
DEVELOPMENT WORKS AT WARD
Registered as EE No. 45/2017-18 Subject
to conditions contained in enclosed memo
No. BBMP/EE(E)E/AS/42/2017-18 dt

Executive Engineer

Technical Sanction
Accorded For 28.00 Lacks
Head of A/C P3250
CER NO: 705/A.18 26.02.18

CE (YNK)